

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Jeffrey M. Gilbert, Alice M. Chiang, and Steven R. Broadstone
Application No.: 09/651,525 Group: 3662
Filed: August 29, 2000 Examiner: Pihulic, D.
For: MULTI-DIMENSIONAL BEAMFORMING DEVICE

CERTIFICATE OF MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Assistant Commissioner for Patents, Washington, D.C. 20231	
on <u>9-12-01</u>	<u>Denise Carvedo</u>
Date	Signature
<u>Denise Carvedo</u>	
Typed or printed name of person signing certificate	

COPY FOR CONTINUING APPLICATION

TRANSMITTAL OF REVOCATION OF POWER OF ATTORNEY
AND APPOINTMENT OF NEW ATTORNEYS

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Enclosed herewith is an executed Revocation of Power of Attorney and Appointment of New Attorneys with Attachment A along with an executed Certificate under 37 C.F.R. § 3.73(b) and Attachment A, for filing in the captioned application.

Please charge any deficiency or credit any overpayment in the fees that may be due in this matter to Deposit Account No. 08-0380. A copy of this letter is enclosed for accounting purposes.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By Robert T. Conway
Robert T. Conway
Registration No.: 33,859
Tel.: (781) 861-6240
Fax: (781) 861-9540

Lexington, MA 02421-4799

Date: September 12, 2001

BEST AVAILABLE COPY

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Assistant Commissioner for Patents, Washington, D.C. 20231	
on <u>8-12-01</u>	<u>Denise Carello</u>
Date	Signature
<u>Denise Carello</u>	
Typed or printed name of person signing certificate	

COPY FOR CONTINUING APPLICATION

REVOCATION OF POWERS OF ATTORNEY
AND APPOINTMENT OF NEW ATTORNEYS AND/OR AGENTS
AND CHANGE OF CORRESPONDENCE ADDRESS

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

TeraTech Corporation, Inc., a Corporation duly organized under the laws of the Commonwealth of Massachusetts, is the assignee of the entire right, title and interest in the patent applications and patents identified in Attachment A. TeraTech Corporation, Inc., hereby appoints the attorneys and/or agents associated with:

Bowditch & Dewey, LLP
161 Worcester Road
Framingham, MA 01701-9320
Thomas O. Hoover, Reg. 32,470
Monica Grewal, Reg. 40,056

to prosecute the identified applications and any divisions or continuations thereof and to conduct all business in the United States Patent and Trademark Office. All previously granted Powers of Attorney are hereby revoked.

Certification under 37 C.F.R. §3.73(b) with Attachment A is submitted herewith.

All correspondence should be sent to Thomas O. Hoover, Esq., Bowditch & Dewey, LLP, 161 Worcester Road, Framingham, Massachusetts 01701-9320. Please direct all telephone calls to Thomas O. Hoover, Esq. at (508) 879-5700, and all facsimile communications to (508) 872-1492.

Respectfully submitted,
TeraTech Corporation, Inc.

By Alice M. Chiang
Alice M. Chiang, Ph.D.

Title: President

Date Aug 24, 2001

BEST AVAILABLE COPY

COPY FOR CONTINUING APPLICATION

ATTACHMENT A

Applicants:	Scott R. Velazquez, Steven R. Broadstone and Alice M. Chiang	Atty. Docket No.: 2008.1003-014
Application No.:	09/293,250	Group: 2731
Filed:	April 16, 1999	Examiner: Tonya Lee
Title:	Communication System Using Geographic Position Data	
Assignee:	TeraTech Corporation	
Recordation Date:	November 18, 1999	Reel: 010394 Frames: 0749-0755
Applicants:	Alice M. Chiang and Steven R. Broadstone	Atty. Docket No.: 2008.1001-018
Application No.:	09/619,123	Group: 3737
Filed:	July 19, 2000	Examiner: Jaworski, F.
Title:	Portable Ultrasound Imaging System	
Assignee:	TeraTech Corporation	
Recordation Date:	November 5, 1998	Reel: 9565 Frames: 0377-0380
Applicants:	Scott R. Velazquez and Steven R. Broadstone	Atty. Docket No.: 2008.1003-000
Application No.:	08/729,289	Group: 3662
Filed:	October 10, 1996	Examiner: Issing, G.
Title:	Communication System Using Geographic Position Data	
Assignee:	TeraTech Corporation	
Recordation Date:	October 10, 1996	Reel: 8245 Frames: 0553-0556

Applicants:	Jeffrey M. Gilbert, Alice M. Chiang and Steven R. Broadstone	Atty. Docket No.: 2008.1004-014
Application No.:	09/447,144	Group: 3737
Filed:	November 23, 1999	Examiner: Patel, M.
Title:	Ultrasound Scan Conversion With Spatial Dithering	
Assignee:	TeraTech Corporation	
Recordation Date:	June 21, 1999	Reel: 010027 Frames: 0738-0744
Applicants:	Jeffrey M. Gilbert and Alice M. Chiang	Atty. Docket No.: 2008.1005-016
Application No.:	09/651,252	Group: 3662
Filed:	August 29, 2000	Examiner: Pihulic, D.
Title:	Multi-Dimensional Beamforming Device	
Assignee:	TeraTech Corporation	
Recordation Date:	December 20, 1999	Reel: 01047 Frames: 0049-0052
Applicants:	Jeffrey M. Gilbert, Alice M. Chiang, Steven R. Broadstone, Gary Madison, Albert Horst, Liang-Min Wang	Atty. Docket No.: 2008.1006-001
Application No.:	09/449,780	Group: 3737
Filed:	November 26, 1999	Examiner: Post, Steven
Title:	Ultrasound Probe with Integrated Electronics	
Assignee:	TeraTech Corporation	
Recordation Date:	July 10, 2000	Reel: 010953 Frames: 0830-0840

COPY FOR CONTINUING APPLICATION

Applicants: Alice M. Chiang and Steven R. Broadstone	Atty. Docket No.: 2008.2001-000
Application No.: 60/195,587	Group: Not Assigned
Filed: April 6, 2000	Examiner: Not Assigned
Title: Sonar Imaging System	
Assignee: TeraTech Corporation	
Recordation Date: Mailed May 7, 2001	Reel: Frames:
Applicants: Alice M. Chiang and Steven R. Broadstone	Atty. Docket No.: 2008.2002-000
Application No.: 60/199,529	Group: Not Assigned
Filed: April 25, 2000	Examiner: Not Assigned
Title: Multiple Beamforming Integrated Circuit	
Assignee: TeraTech Corporation	
Recordation Date: Mailed May 7, 2001	Reel: Frames:
Applicants: Alice M. Chiang, Jeffrey M. Gilbert and Steven R. Broadstone	Atty. Docket No.: 2008.1005-015
Application No.: 09/364,699	Group: 3662
Filed: July 30, 1999	Examiner: Pihulic, D.
Title: Multi-Dimensional Beamforming Device	
Assignee: TeraTech Corporation	
Recordation Date: December 20, 1999	Reel: 010471 Frames: 0049-0052

COPY FOR CONTINUING
APPLICATION

Applicants:	Jeffrey M. Gilbert, Alice M. Chiang and Steven R. Broadstone	Atty. Docket No.: 2008.1004-001
Application No.:	09/203,877	Group: 3737
Filed:	December 2, 1998	Examiner: Patel, M.
Title:	Ultrasound Scan Conversion with Spatial Dithering	
Assignee:	TeraTech Corporation	
Recordation Date:	June 21, 1999	Reel: 010027 Frames: 0738-0744

TOH/smg

::ODMAMHODMA\iManage;235513;1

CERTIFICATE UNDER 37 C.F.R. § 3.73(b)

TeraTech Corporation
(Name of Assignee)

a Corporation
(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

certifies that it is

- A. ☒ the assignee of the entire right, title and interest in the patent applications identified in attachment A.
- B. ☐ an assignee together with ☐ of the entire right, title and interest in the patent application identified above. A separate Certificate under 37 CFR § 3.73(b) is attached.

The right, title and interest of the above-named assignee in the patent applications identified in attachment A is established by virtue of:

- A. ☒ An assignment from the inventor(s) of the patent applications identified in attachment A. The assignment was recorded in the Patent and Trademark Office at the Reel and Frames indicated in attachment A, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s) of the patent application identified above, to the current assignee as shown below:

1. From: To:
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.
2. From: To:
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.
3. From: To:
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are attached.

☐ Copies of assignments or other documents in the chain of title are attached.

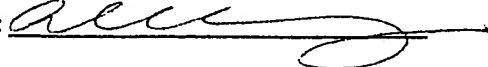
The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: Aug 23, 2001

Name: Alice M. Chiang, Ph.D.

Title: President

Signature: 

ATTACHMENT A

COPY FOR CONTINUING
APPLICATION

Applicants:	Scott R. Velazquez, Steven R. Broadstone and Alice M. Chiang	Atty. Docket No.: 2008.1003-014
Application No.:	09/293,250	Group: 2731
Filed:	April 16, 1999	Examiner: Tonya Lee
Title:	Communication System Using Geographic Position Data	
Assignee:	TeraTech Corporation	
Recordation Date:	November 18, 1999	Reel: 010394 Frames: 0749-0755
Applicants:	Alice M. Chiang and Steven R. Broadstone	Atty. Docket No.: 2008.1001-018
Application No.:	09/619,123	Group: 3737
Filed:	July 19, 2000	Examiner: Jaworski, F.
Title:	Portable Ultrasound Imaging System	
Assignee:	TeraTech Corporation	
Recordation Date:	November 5, 1998	Reel: 9565 Frames: 0377-0380
Applicants:	Scott R. Velazquez and Steven R. Broadstone	Atty. Docket No.: 2008.1003-000
Application No.:	08/729,289	Group: 3662
Filed:	October 10, 1996	Examiner: Issing, G.
Title:	Communication System Using Geographic Position Data	
Assignee:	TeraTech Corporation	
Recordation Date:	October 10, 1996	Reel: 8245 Frames: 0553-0556

Applicants:	Jeffrey M. Gilbert, Alice M. Chiang and Steven R. Broadstone	Atty. Docket No.: 2008.1004-014
Application No.:	09/447,144	Group: 3737
Filed:	November 23, 1999	Examiner: Patel, M.
Title:	Ultrasound Scan Conversion With Spatial Dithering	
Assignee:	TeraTech Corporation	
Recordation Date:	June 21, 1999	Reel: 010027 Frames: 0738-0744
Applicants:	Jeffrey M. Gilbert and Alice M. Chiang	Atty. Docket No.: 2008.1005-016
Application No.:	09/651,252	Group: 3662
Filed:	August 29, 2000	Examiner: Pihulic, D.
Title:	Multi-Dimensional Beamforming Device	
Assignee:	TeraTech Corporation	
Recordation Date:	December 20, 1999	Reel: 01047 Frames: 0049-0052
Applicants:	Jeffrey M. Gilbert, Alice M. Chiang, Steven R. Broadstone, Gary Madison, Albert Horst, Liang-Min Wang	Atty. Docket No.: 2008.1006-001
Application No.:	09/449,780	Group: 3737
Filed:	November 26, 1999	Examiner: Post, Steven
Title:	Ultrasound Probe with Integrated Electronics	
Assignee:	TeraTech Corporation	
Recordation Date:	July 10, 2000	Reel: 010953 Frames: 0830-0840

COPY FOR CONTINUING APPLICATION

Applicants: Alice M. Chiang and Steven R. Broadstone		Atty. Docket No.: 2008.2001-000
Application No.: 60/195,587		Group: Not Assigned
Filed: April 6, 2000		Examiner: Not Assigned
Title: Sonar Imaging System		
Assignee: TeraTech Corporation		
Recordation Date: Mailed May 7, 2001		Reel: Frames:
Applicants: Alice M. Chiang and Steven R. Broadstone		Atty. Docket No.: 2008.2002-000
Application No.: 60/199,529		Group: Not Assigned
Filed: April 25, 2000		Examiner: Not Assigned
Title: Multiple Beamforming Integrated Circuit		
Assignee: TeraTech Corporation		
Recordation Date: Mailed May 7, 2001		Reel: Frames:
Applicants: Alice M. Chiang, Jeffrey M. Gilbert and Steven R. Broadstone		Atty. Docket No.: 2008.1005-015
Application No.: 09/364,699		Group: 3662
Filed: July 30, 1999		Examiner: Pihulic, D.
Title: Multi-Dimensional Beamforming Device		
Assignee: TeraTech Corporation		
Recordation Date: December 20, 1999		Reel: 010471 Frames: 0049-0052

COPY FOR CONTINUING
APPLICATION

Applicants:	Jeffrey M. Gilbert, Alice M. Chiang and Steven R. Broadstone	Atty. Docket No.: 2008.1004-001
Application No.:	09/203,877	Group: 3737
Filed:	December 2, 1998	Examiner: Patel, M.
Title:	Ultrasound Scan Conversion with Spatial Dithering	
Assignee:	TeraTech Corporation	
Recordation Date:	June 21, 1999	Reel: 010027 Frames: 0738-0744

TOH/smg

::ODMA\HODMA\iManage;235513;1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application

As a named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 3 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

MULTI-DIMENSIONAL BEAMFORMING DEVICE

the specification of which (check one)

☐ is attached hereto.

☒ was filed on July 30, 1999 as United States Application

Number or PCT International Application No. 09/364,699

and was amended on _____ (if applicable).

COPY FOR CONTINUING APPLICATION

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is known by me to be material to patentability as defined in 37 C.F.R. §1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:

<u>Prior Foreign Application(s)</u>			Priority Not Claimed	Certified Copy Filed?	
(Number)	(Country)	(Day/Month/Year filed)		YES	NO
_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below.

<u>60/036,837</u>	<u>03 February 1997</u>
(Application Number)	(Filing Date)
_____	_____
(Application Number)	(Filing Date)

THIS IS A COPY

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information known by me to be material to patentability as defined in 37 C.F.R. 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

<u>PCT/US98/02291</u> (Application Serial No.)	<u>03 February 1998</u> (Filing date)	<u>(Status: patented, pending, abandoned)</u>
<u>08/965,663</u> (Application Serial No.)	<u>06 November 1997</u> (Filing date)	<u>Pending</u> (Status: patented, pending, abandoned)
<u>(Application Serial No.)</u>	<u>(Filing date)</u>	<u>(Status: patented, pending, abandoned)</u>
<u>(Application Serial No.)</u>	<u>(Filing date)</u>	<u>(Status: patented, pending, abandoned)</u>

As a named inventor, I hereby appoint the attorneys and/or agents associated with
Hamilton, Brook, Smith & Reynolds, P.C., Two Militia Drive, Lexington, Massachusetts 02421-4799
Customer No. 21005,

and _____

to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

Please send correspondence to: ☐ Customer No. Noted Above
or
☒ Address below:

Thomas O. Hoover, Esq.
HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
Two Militia Drive
Lexington, MA 02421-4799

**COPY FOR CONTINUING
APPLICATION**

Direct telephone calls to: Thomas O. Hoover Telephone No.: 781-861-6240

Direct facsimiles to: Thomas O. Hoover Facsimile No.: 781-861-9540

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole

or first inventor Jeffrey M. Gilbert

Inventor's Signature *Jeffrey M. Gilbert* Date 12/9/99

Residence 1551 Liberty Street, Apt. 4

El Cerrito, California 94530

Citizenship USA

Post Office Address Same as above

NOT FORWARDED COPY

Full name of second joint

inventor, if any Alice M. Chiang

Inventor's Signature  Date Dec 9 99

Residence 4 Glenfeld East

Weston, Massachusetts 02493

Citizenship U.S.A.

Post Office Address Same as above

Full name of third joint

inventor, if any Steven R. Broadstone

Inventor's Signature  Date 12-9-99

Residence 14 Hammond Place

Woburn, Massachusetts 01801

Citizenship USA

Post Office Address Same as above

::ODMA\HODMA\Manage;98579;1

**COPY FOR CONTINUING
APPLICATION**

NO. 082000 0015 0001